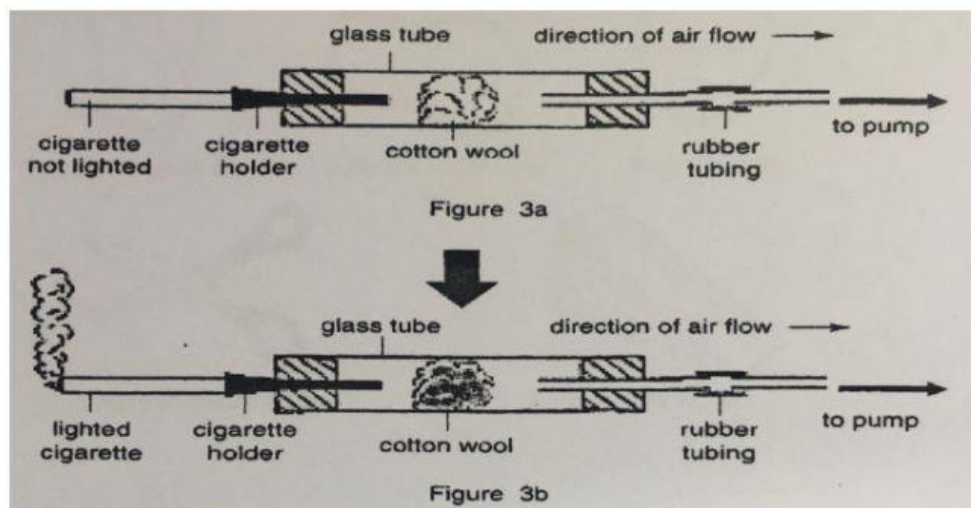


7. Teacher Saiful used a 'cigarette-smoking' model in Figure 3a and Figure 3b to show his pupils what would happen to a person's body when he smokes.

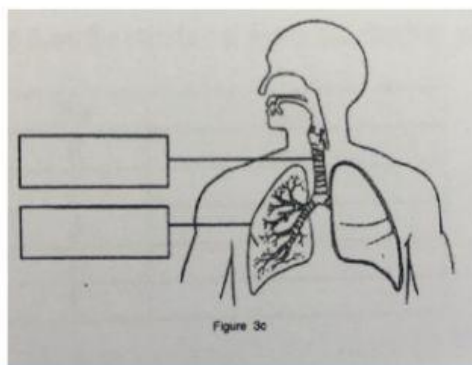


- i. Observe what has happened to the cotton wool after the cigarette is lighted in Figure 3b. Write down your answer in Table 3.

Cotton Wool	Cigarette	
	Before (not lighted)	After (lighted)
Colour	White	
Smell	No smell	

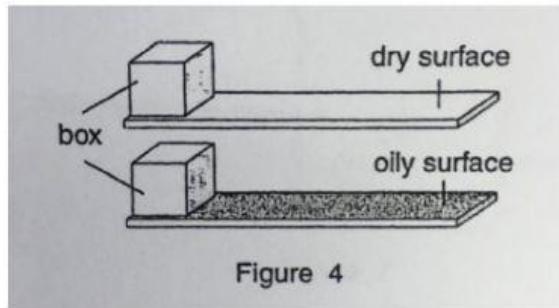
- ii. Name the substance in the cigarette smoke that changed the colour of the cotton wool in Figure 3b.

- iii. Name the human body system shown below.



PSR 2017

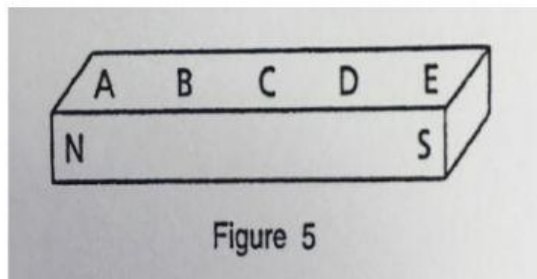
7. (a) Figure 4 shows an investigation on pushing a box on two surfaces. The result from the experiment is that the box moves further on the oily surfaces.



- (i) Explain why the block moves further on the oily surface?

- (ii) What are kept the same in this investigation?

- (b) Figure 5 shows an investigation on a magnet with marked A, B, C, D and E to record the maximum number of paper clips that each area can attract.



- (i) Which area or areas would attract the most number of paper clips?

- (ii) What was the investigation trying to find out?

7. Compare both the young stage if a butterfly and a cockroach in Figure 3.

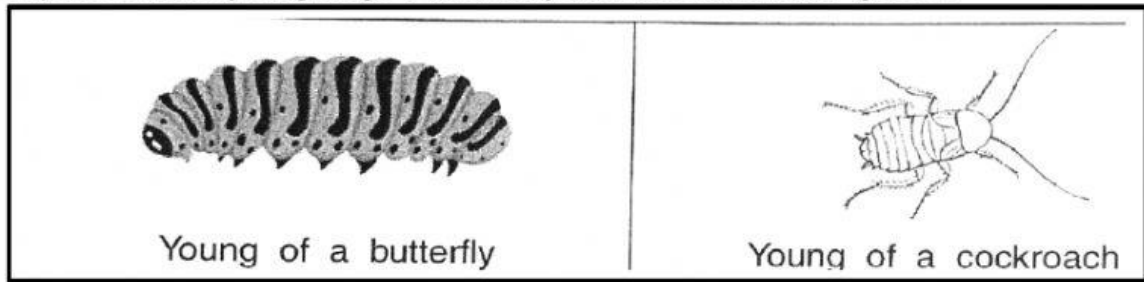


Figure 3

a) What is the young of a butterfly called?

_____ [1 mark]

b) What is the young of a cockroach called?

_____ [1 mark]

c) How are they similar?

_____ [1 mark]

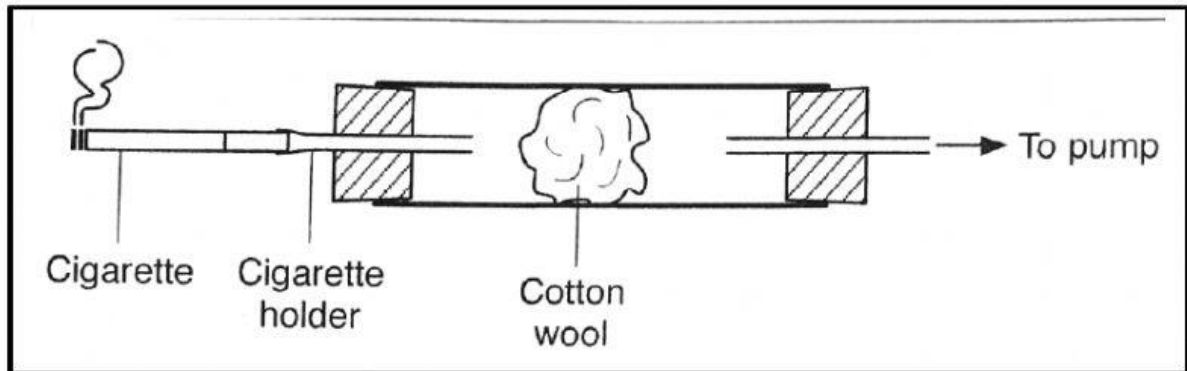
d) List 2 differences.

(i) _____

(ii) _____

[2 mark]

7 (b) Figure 4 shows the experiment to find out the effect of smoking cigarettes.



- (ii) What does the result of the experiment in Figure 4 tell you about the effect of smoking? Give a reason for your answer.

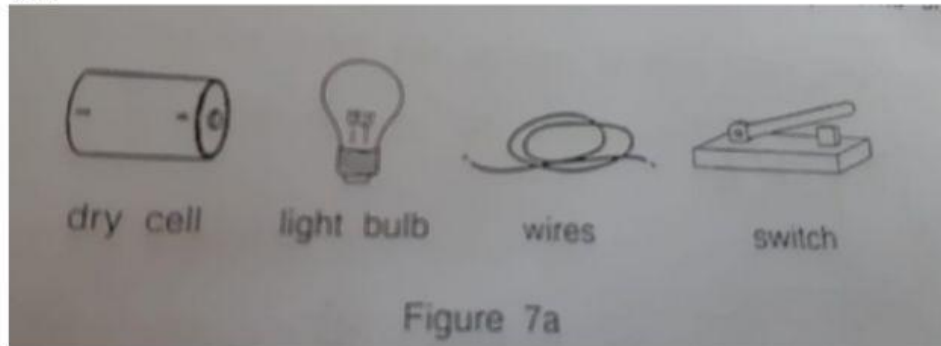
[1 mark]

Reason: _____

[1 mark]

PSR 2015

8. (a) Aminah sets up an electric circuit using all the components shown in figure 7a.



- (i) Use **symbols** to draw a **closed** circuit diagram in figure 7b below.



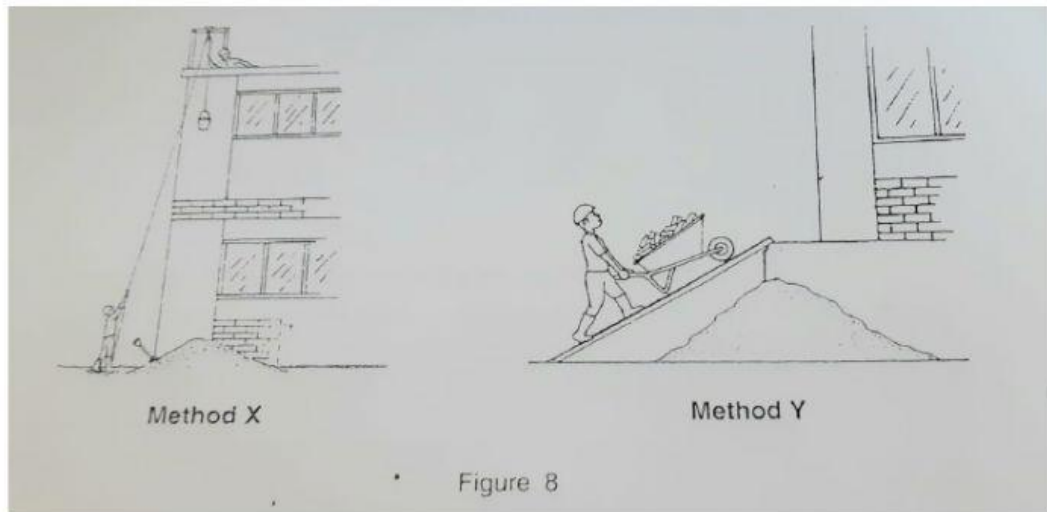
Figure 7b

[2 marks]

- (iii) Explain what will happen if two more bulbs are added to the electric circuit in figure 7b?

[1 mark]

(a) Figure 8 below shows two workers lifting bricks by using two methods.



i) Which method will help the two workers complete their work faster?

(iv) Give **two (2) reasons** for your answer in questions (ii).

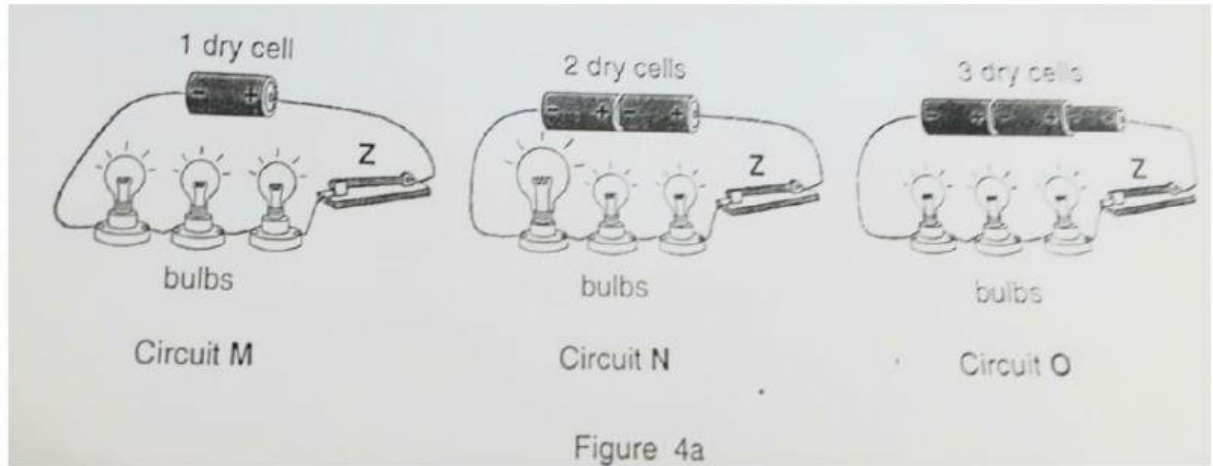
1. _____

2. _____

[2 marks]

PSR 2016

8. (a) Nina wanted to find out whether the brightness of bulbs is affected by the number of dry cells in a series circuit. She set up three circuits (Circuit M, N and O) in figure 4a.



Study the set-up of the experiment in figure 4a.

- (i) Nina's experiment is **not** a fair test. Describe **two** things she should to make sure the results of her experiments will be fair.

1. _____

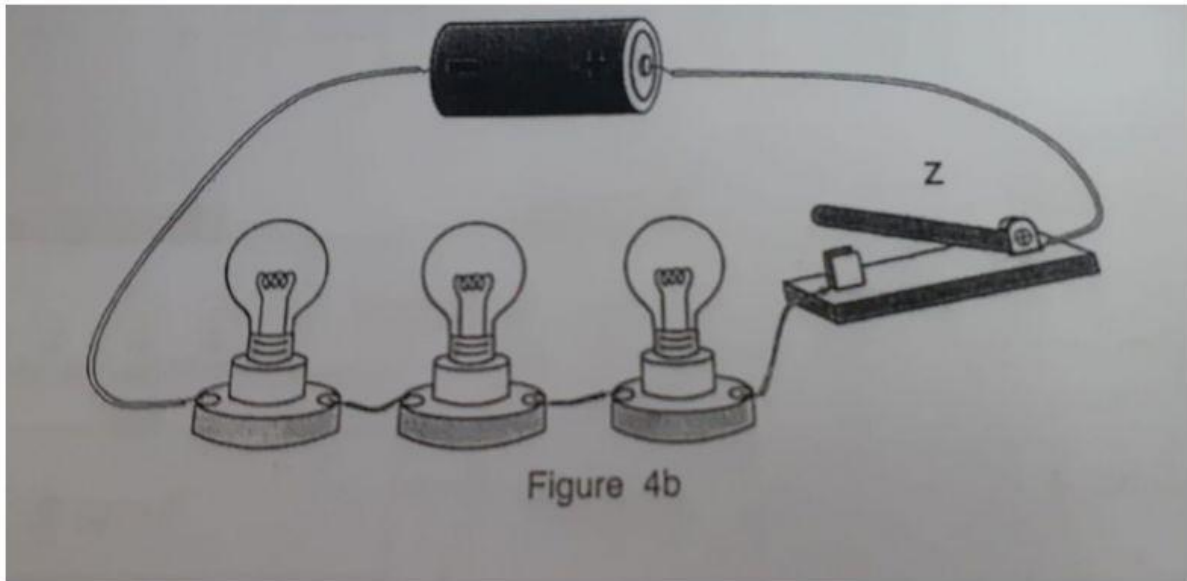
2. _____

[2 marks]

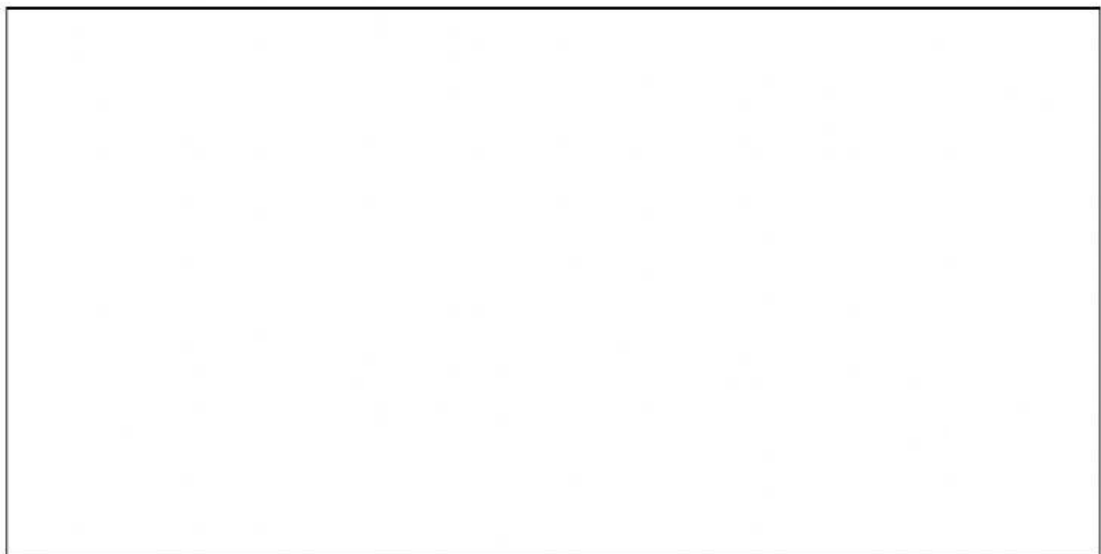
- (iii) What is **Z** used for?

[1 mark]

- (b) The electrical component, Z, is **opened** at circuit M in figure 4b.



- (i) Draw the **circuit diagram** of figure 4b in the box provided bellow using the **correct symbols** for the electrical components.



(4 marks)

8. (a) The life cycle of a butterfly and a cockroach are shown in figure 6.

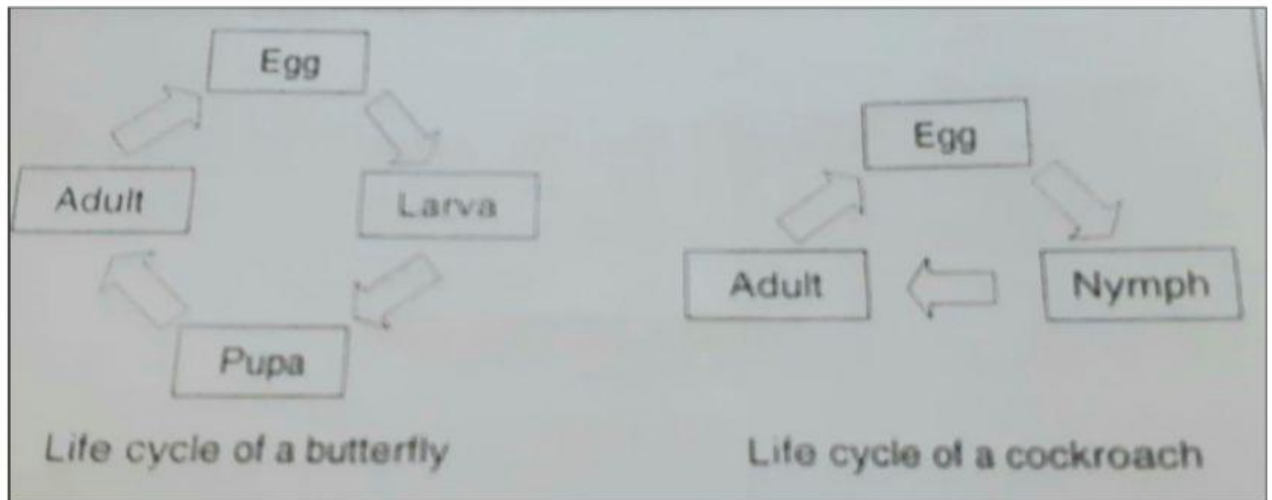


Figure 6

- (i) In what way is the life cycle of a butterfly different from the life cycle of a cockroach?

[1 mark]

- (ii) Give one other example of an animal which has the same life cycle as the butterfly?

[1 mark]

- (iii) Give one other example of an animal which has the same life cycle as the cockroach?

[1 mark]